

2661

Sheet 1 of 11

FORM PTO-1449

Atty. Docket No.:
P32.12-0006Appl. No.:
09/855,179

LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION
DISCLOSURE STATEMENT

First Named Inventor:

Evren Eryurek et al.

Filing Date

Group Art:

May 14, 2001


FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Sub Class	Translation Yes No
KS	HA	WO 94/25933	11/10/94	WIPO			X
	HB	WO 96/11389	04/18/96	WIPO			X
	HC	WO 96/12993	05/02/96	WIPO			X
	HD	WO 96/39617	12/12/96	WIPO			X
	HE	WO 97/21157	06/12/97	WIPO			X
	HF	WO 97/25603	07/17/97	WIPO			X
	HG	WO 98/06024	02/12/98	WIPO			X
	HH	WO 98/20469	05/14/98	WIPO			X
	HI	0 122 622 A1	10/24/84	EPO			X
	HJ	0 413 814 A1	02/27/91	EPO			X
	HK	0 624 847 A1	11/17/94	EPO			X (Abstract)
	HL	0 487 419 A2	05/27/92	EPO			X
	HM	0 594 227 A1	04/27/94	EPO			X
	HN	0 644 470 A2	03/22/95	EPO			X
	HO	EP 0 825 506 A2	07/14/97	EPO			X
	HP	EP 0 827 096 A2	09/01/97	EPO			X
	HQ	EP 0 838 768 A2	09/24/97	EPO			X
	HR	DE 32 13 866 A1	10/27/83	Germany			X
	HS	DE 35 40 204 C1	09/25/86	Germany			X (Abstract)
	HT	DE 40 08 560 A1	09/20/90	Germany			X (Abstract)
	HU	DE 44 33 593 A1	06/01/95	Germany			X (Abstract)
	HV	DE 195 02 499 A1	08/01/96	Germany			X (Abstract)
	HW	DE 296 00 609 U1	03/27/97	Germany			X
↓	HX	DE 197 04 694 A1	08/14/97	Germany			X

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		Filing Date	Group Art:
		May 14, 2001	---

FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Sub Class	Translation Yes No
XS	IA	58-129316	08/02/83	Japan			X (Abstract)
	IB	59-116811	07/05/84	Japan			X (Abstract)
	IC	59-211196	11/29/84	Japan			Title and Clair
	ID	59-211896	11/30/84	Japan			X (Abstract)
	IE	60-507	01/05/85	Japan			X (Abstract)
	IF	60-76619	05/01/85	Japan			X (Abstract)
	IG	60-131495	07/13/85	Japan			X (Abstract)
	IH	62-30915	02/09/87	Japan			X (Abstract)
	II	64-72699	03/17/89	Japan			X (Abstract)
	IJ	64-1914	01/06/89	Japan			X (Abstract)
	IK	2-5105	01/10/90	Japan			X (Abstract)
	IL	5-122768	05/18/93	Japan			X (Abstract)
	IM	06242192	09/02/94	Japan			X (Abstract)
	IN	7-63586	03/10/95	Japan			X (Abstract)
	IO	07234988	09/05/95	Japan			X (Abstract)
	IP	8-54923	02/27/96	Japan			X (Abstract)
	IQ	8-136386	05/31/96	Japan			X (Abstract)
	IR	8-166309	06/25/96	Japan			X (Abstract)
	IS	2753592	03/06/98	Japan			X
	IT	10-232170	09/02/98	Japan			X
	IU	928,704	06/12/63	United Kingdom			X
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✓	IW	2 310 346 A	08/20/97	United Kingdom			X
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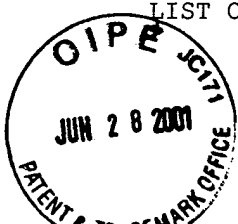
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<i>X</i>	JA	2 302 514	09/24/76	France			X
	JB	2 334 827	07/08/77	France			X (Abstract)
	JC	JP 07225530	05/1998	Japan			ABSTRACT ONLY
	JD	DE 43 43 747	06/1994	Germany			
	JE	WO 98/13677	04/1998	WIPO			
	JF	2712625	10/31/97	Japan			X
	JG	2712701	10/31/97	Japan			X
	JH	08247076	09/24/96	Japan			ABSTRACT ONLY
	JI	EP 1058093-A1	05/29/99	EPO			(Abstract Only)
	JJ	DE 19930660-A1	07/02/99	Germany			(Abstract Only)
	JK	DE 299 17 651 U1	12/14/00	Germany			X
<i>↓</i>	JL	WO 00/70531	11/23/00	WIPO			X
	JM						
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Filing Date		Group Art:
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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

XS	KA	"A TCP/IP Tutorial" by, Socolofsky et al., Spider Systems Limited, January 1991 pp. 1-23.
	KB	"Approval Standards For Explosionproof Electrical Equipment General Requirements", Factory Mutual Research, Cl. No. 3615, March 1989, pp. 1-34.
	KC	"Approval Standard Intrinsically Safe Apparatus and Associated Apparatus For Use In Class I, II, and III, Division 1 Hazardous (Classified) Locations", Factory Mutual Research, Cl. No. 3610, October 1988, pp. 1-70.
	KD	"Automation On-line" by, Phillips et al., Plant Services, July 1997, pp. 41-45.
	KE	"Climb to New Heights by Controlling your PLCs Over the Internet" by, Phillips et al., Intech, August 1998, pp. 50-51.
	KF	"CompProcessor For Piezoresistive Sensors" MCA Technologies Inc. (MCA7707), pp. 1-8.
	KG	"Ethernet emerges as viable, inexpensive fieldbus", Paul G. Schreier, Personal Engineering, December 1997, p. 23-29.
	KH	"Ethernet Rules Closed-loop System" by, Eidson et al., Intech, June 1998, pp. 39-42.
	KI	"Fieldbus Standard for Use in Industrial Control Systems Part 2: Physical Layer Specification and Service Definition", ISA-S50.02-1992, pp. 1-93.
	KJ	"Fieldbus Standard for Use in Industrial Control Systems Part 3: Data Link Service Definition", ISA-S50.02-1997, Part 3, August 1997, pp. 1-159.
	KK	"Fieldbus Standard For Use in Industrial Control Systems Part 4: Data Link Protocol Specification, ISA-S50.02-1997, Part 4, August 1997, pp. 1-148.
	KL	"Fieldbus Support For Process Analysis" by, Blevins et al., Fisher-Rosemount Systems, Inc., 1995, pp. 121-128.
	KM	"Fieldbus Technical Overview Understanding FOUNDATION™ fieldbus technology", Fisher-Rosemount, 1998, pp. 1-23.
	KN	"Hypertext Transfer Protocol -- HTTP/1.0" by, Berners-Lee et al., MIT/LCS, May 1996, pp. 1-54.
	KO	"Infranets, Intranets, and the Internet" by, Pradip Madan, Echelon Corp, Sensors, March 1997, pp. 46-50.
✓	KP	"Internet Technology Adoption into Automation" by, Fondl et al., Automation Business, pp. 1-5.

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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

XS	LA	"Internet Protocol Darpa Internet Program Protocol Specification" by, Information Sciences Institute, University of Southern California, RFC 791, September 1981, pp. 1-43.
	LB	"Introduction to Emit", emWare, Inc., 1997, pp. 1-22.
	LC	"Introduction to the Internet Protocols" by, Charles L. Hedrick, Computer Science Facilities Group, Rutgers University, October 3, 1988, pp. 1-97.
	LD	"Is There A Future For Ethernet in Industrial Control?", Miclot et al., Plant Engineering, October 1988, pp. 44-46, 48, 50.
	LE	LFM/SIMA Internet Remote Diagnostics Research Project Summary Report, Stanford University, January 23, 1997, pp. 1-6.
	LF	"Managing Devices with the Web" by, Howard et al., Byte, September 1997, pp. 45-64.
	LG	"Modular Microkernel Links GUI And Browser For Embedded Web Devices" by, Tom Williams, pp. 1-2.
	LH	"PC Software Gets Its Edge From Windows, Components, and the Internet", Wayne Labs, I&CS, March 1997, pp. 23-32.
	LI	Proceedings Sensor Expo, Anaheim, California, Produced by Expocon Management Associates, Inc., April 1996, pp. 9-21.
	LJ	Proceedings Sensor Expo, Boston, Massachusetts, Produced by Expocon Management Associates, Inc., May 1997, pp. 1-416.
	LK	"Smart Sensor Network of the Future" by, Jay Warrior, Sensors, March 1997, pp. 40-45.
	LL	"The Embedded Web Site" by, John R. Hines, IEEE Spectrum, September 1996, p. 23.
	LM	"Transmission Control Protocol: Darpa Internet Program Protocol Specification" Information Sciences Institute, September 1981, pp. 1-78.
	LN	"On-Line Statistical Process Control for a Glass Tank Ingredient Scale," by R.A. Weisman, IFAC real Time Programming, 1985, pgs. 29-38.
	LO	"The Performance of Control Charts for Monitoring Process Variation," by C. Lowry et al., COMMUN. STATIS. - SIMULA., 1995, pgs. 409-437.
✓	LP	"A Knowledge-Based Approach for Detection and Diagnosis of Out-Of-Control Events in Manufacturing Processes," by P. Love et al., IEEE, 1989, pgs. 736-741.

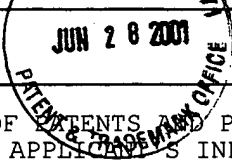
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XS	MA	"Advanced Engine Diagnostics Using Universal Process Modeling", by P. O'Sullivan, Presented at the 1996 SAE Conference on Future Transportation Technology, pgs. 1-9.
	MB	"Parallel, Fault-Tolerant Control and Diagnostics System for Feedwater Regulation in PWRs, by E. Eryurek et al., <u>Proceedings of the American Power Conference</u> .
	MC	"Programmable Hardware Architectures for Sensor Validation", by M.P. Henry et al., <u>Control Eng. Practice</u> , Vol. 4, No. 10., pgs. 1339-1354, (1996).
	MD	"Sensor Validation for Power Plants Using Adaptive Backpropagation Neural Network," <u>IEEE Transactions on Nuclear Science</u> , Vol. 37, No. 2, by E. Eryurek et al. April 1990, pgs. 1040-1047.
	ME	"Signal Processing, Data Handling and Communications: The Case for Measurement Validation", by M.P. Henry, <u>Department of Engineering Science, Oxford University</u> .
	MF	"Smart Temperature Measurement in the '90s", by T. Kerlin et al., <u>C&I</u> , (1990).
	MG	"Software-Based Fault-Tolerant Control Design for Improved Power Plant Operation," <u>IEEE/IFAC Joint Symposium on Computer-Aided Control System Design</u> , March 7-9, 1994 pgs. 585-590.
	MH	"A Standard Interface for Self-Validating Sensors, by M.P. Henry et al., <u>Report No. QUEL 1884/91</u> , (1991).
	MI	"Taking Full Advantage of Smart Transmitter Technology Now," by G. Orrison, <u>Control Engineering</u> , Vol. 42, No. 1, January 1995.
	MJ	"Using Artificial Neural Networks to Identify Nuclear Power Plant States," by Israel E. Alguindigue et al., pgs. 1-4.
	MK	"Application of Neural Computing Paradigms for Signal Validation," by B.R. Upadhyaya et al., <u>Department of Nuclear Engineering</u> , pgs. 1-18.
	ML	"Application of Neural Networks for Sensor Validation and Plant Monitoring," by B. Upadhyaya et al., <u>Nuclear Technology</u> , Vol. 97, No. 2, Feb. 1992 pgs. 170-176.
	MM	"Automated Generation of Nonlinear System Characterization for Sensor Failure Detection," by B.R. Upadhyaya et al., <u>ISA</u> , 1989 pgs. 269-274.
	MN	"In Situ Calibration of Nuclear Plant Platinum Resistance Thermometers Using Johnson Noise Methods," <u>EPRI</u> , June 1983.
	MO	"Johnson Noise Thermometer for High Radiation and High-Temperature Environments," by L. Oakes et al., <u>Fifth Symposium on Space Nuclear Power Systems</u> , January 1988, pgs. 2-23.
↓	MP	"Development of a Resistance Thermometer For Use Up to 1600°C", by M.J. de Groot et al., <u>CAL LAB</u> , July/August 1996, pgs. 38-41.

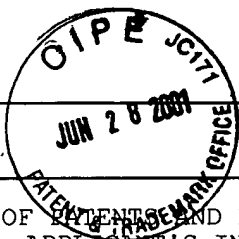
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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

XS	NA	"Survey, Applications, And Prospects of Johnson Noise Thermometry," by T. Blalock et al., <u>Electrical Engineering Department</u> , 1981 pgs. 2-11.
	NB	"Noise Thermometry for Industrial and Metrological Applications at KFA Julich," by H. Brixy et al., <u>7th International Symposium on Temperature</u> , 1992.
	NC	"Johnson Noise Power Thermometer and its Application in Process Temperature Measurement," by T.V. Blalock et al., <u>American Institute of Physics</u> 1982, pgs. 1249-1259.
	ND	"Field-based Architecture is Based on Open Systems, Improves Plant Performance", by P. Cleaveland, <u>I&CS</u> , August 1996, pgs. 73-74.
	NE	"Tuned-Circuit Dual-Mode Johnson Noise Thermometers," by R.L. Shepard et al., April 1992.
	NF	"Tuned-Circuit Johnson Noise Thermometry," by Michael Roberts et al., <u>7th Symposium on Space Nuclear Power Systems</u> , January 1990.
	NG	"Smart Field Devices Provide New Process Data, Increase System Flexibility," by Mark Boland, <u>I&CS</u> , November 1994, pgs. 45-51.
	NH	"Wavelet Analysis of Vibration, Part I: Theory ¹ ," by D.E. Newland, <u>Journal of Vibration and Acoustics</u> , Vol. 116, October 1994, pgs. 409-416.
	NI	"Wavelet Analysis of Vibration, Part 2: Wavelet Maps," by D.E. Newland, <u>Journal of Vibration and Acoustics</u> , Vol. 116, October 1994, pgs. 417-425.
	NJ	"Development of a Long-Life, High-Reliability Remotely Operated Johnson Noise Thermometer," by R.L. Shepard et al., <u>ISA</u> , 1991, pgs. 77-84.
	NK	"Application of Johnson Noise Thermometry to Space Nuclear Reactors," by M.J. Roberts et al., <u>Presented at the 6th Symposium on Space Nuclear Power Systems</u> , January 9-12, 1989.
	NL	"A Decade of Progress in High Temperature Johnson Noise Thermometry," by T.V. Blalock et al., <u>American Institute of Physics</u> , 1982 pgs. 1219-1223.
	NM	"Sensor and Device Diagnostics for Predictive and Proactive Maintenance", by B. Boynton, <u>A Paper Presented at the Electric Power Research Institute - Fossil Plant Maintenance Conference</u> in Baltimore, Maryland, July 29-August 1, 1996, pgs. 50-1 - 50-6.
	NN	"Detection of Hot Spots in Thin Metal Films Using an Ultra Sensitive Dual Channel Noise Measurement System," by G.H. Massiha et al., <u>Energy and Information Technologies in the Southeast</u> , Vol. 3 of 3, April 1989, pgs. 1310-1314.
	NO	"Detecting Blockage in Process Connections of Differential Pressure Transmitters", by E. Taya et al., <u>SICE</u> , 1995, pgs. 1605-1608.

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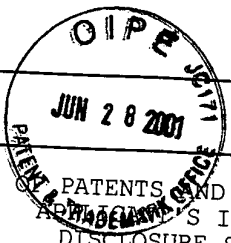
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APPROPRIATE INFORMATION
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09/855,179

First Named Inventor:

Evren Eryurek et al.

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Group Art:

May 14, 2001

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

XS	OA	"Development and Application of Neural Network Algorithms For Process Diagnostics," by B.R. Upadhyaya et al., <u>Proceedings of the 29th Conference on Decision and Control</u> , 1990, pgs. 3277-3282.
	OB	"A Fault-Tolerant Interface for Self-Validating Sensors", by M.P. Henry, <u>Colloquium</u> , pgs. 3/1-3/2 (November 1990).
	OC	"Fuzzy Logic and Artificial Neural Networks for Nuclear Power Plant Applications," by R.C. Berkan et al., <u>Proceedings of the American Power Conference</u> .
	OD	"Fuzzy Logic and Neural Network Applications to Fault Diagnosis", by P. Frank et al., <u>International Journal of Approximate Reasoning</u> , (1997), pgs. 68-88.
	OE	"Keynote Paper: Hardware Compilation-A New Technique for Rapid Prototyping of Digital Systems-Applied to Sensor Validation", by M.P. Henry, <u>Control Eng. Practice</u> , Vol. 3, No. 7., pgs. 907-924, (1995).
	OF	"The Implications of Digital Communications on Sensor Validation", by M. Henry et al., <u>Report No. QUEL 1912/92</u> , (1992).
	OG	"In-Situ Response Time Testing of Thermocouples", <u>ISA</u> , by H.M. Hashemian et al., Paper No. 89-0056, pgs. 587-593, (1989).
	OH	"An Integrated Architecture For Signal Validation in Power Plants," by B.R. Upadhyaya et al., <u>Third IEEE International Symposium on Intelligent Control</u> , August 24-26, 1988, pgs. 1-6.
	OI	"Integration of Multiple Signal Validation Modules for Sensor Monitoring," by B. Upadhyaya et al., <u>Department of Nuclear Engineering</u> , July 8, 1990, pgs. 1-6.
	OJ	"Intelligent Behaviour for Self-Validating Sensors", by M.P. Henry, <u>Advances In Measurement</u> , pgs. 1-7, (May 1990).
	OK	"Measurement of the Temperature Fluctuation in a Resistor Generating 1/F Fluctuation," by S. Hashiguchi, <u>Japanese Journal of Applied Physics</u> , Vol. 22, No. 5, Part 2, May 1983, pgs. L284-L286.
	OL	"Check of Semiconductor Thermal Resistance Elements by the Method of Noise Thermometry", by A. B. Kisilevskii et al., <u>Measurement Techniques</u> , Vol. 25, No. 3, March 1982, New York, USA, pgs. 244-246.
	OM	"Neural Networks for Sensor Validation and Plant Monitoring," by B. Upadhyaya, <u>International Fast Reactor Safety Meeting</u> , August 12-16, 1990, pgs. 2-10.
	ON	"Neural Networks for Sensor Validation and Plantwide Monitoring," by E. Eryurek, 1992.
✓	OO	"A New Method of Johnson Noise Thermometry", by C.J. Borkowski et al., <u>Rev. Sci. Instrum.</u> , Vol. 45, No. 2, (February 1974) pgs. 151-162.

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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

XS	PA	"Thermocouple Continuity Checker," IBM Technical Disclosure Bulletin, Vol. 20, No. 5, pages 1954 (October 1977).
	PB	"A Self-Validating Thermocouple," Janice C-Y et al., IEEE Transactions on Control Systems Technology, Vol. 5, No. 2, pp. 239-53 (March 1997).
	PC	Instrument Engineers' Handbook, Chapter IV entitled "Temperature Measurements," by T.J. Claggett, pp. 266-333 (1982).
	PD	"emWare's Releases EMIT 3.0, Allowing Manufacturers to Internet and Network Enable Devices Royalty Free," 3 pages, PR Newswire (November 4, 1998).
	PE	Warrior, J., "The IEEE P1451.1 Object Model Network Independent Interfaces for Sensors and Actuators," pp. 1-14, Rosemount Inc. (1997).
	PF	Warrior, J., "The Collision Between the Web and Plant Floor Automation," 6 th . WWW Conference Workshop on Embedded Web Technology, Santa Clara, CA (April 7, 1997).
	PG	Microsoft Press Computer Dictionary, 3 rd Edition, page 124.
	PH	"Internal Statistical Quality Control for Quality Monitoring Instruments", by P. Girling et al., ISA, 15 pgs., 1999.
	PI	Web Pages from www.triant.com (3 pgs.).
	PJ	"Statistical Process Control (Practice Guide Series Book)", Instrument Society of America, 1995, pgs. 1-58 and 169-204.
	PK	"Time-Frequency Analysis of Transient Pressure Signals for a Mechanical Heart Valve Cavitation Study," ASAIQ Journal, by Alex A. Yu et al., Vol. 44, No. 5, pgs. M475-M479, (September - October 1998).
	PL	"Transient Pressure Signals in Mechanical Heart Valve Cavitation," by Z.J. Wu et al., pgs. M555-M561 (undated).
	PM	"Cavitation in Pumps, Pipes and Valves," Process Engineering, by Dr. Ronald Young, pgs. 47 and 49 (January 1990).
	PN	"Quantification of Heart Valve Cavitation Based on High Fidelity Pressure Measurements," Advances in Bioengineering 1994, by Laura A. Garrison et al., BED-Vol. 28, pgs. 297-298 (November 6-11, 1994).
	PO	"Monitoring and Diagnosis of Cavitation in Pumps and Valves Using the Wigner Distribution," Hydroacoustic Facilities, Instrumentation, and Experimental Techniques, NCA-Vol. 10, pgs. 31-36 (1991).
	PP	"Developing Predictive Models for Cavitation Erosion," Codes and Standards in A Global Environment, PVP-Vol. 259, pgs. 189-192 (1993).
↓	PT	"Self-Diagnosing Intelligent Motors: A Key Enabler for Next Generation Manufacturing System," by Fred M. Discenzo et al., pgs. 3/1-3/4 (1999).

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		May 14, 2001	---

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

XS	QA	"A Microcomputer-Based Instrument for Applications in Platinum Resistance Thermometry," by H. Rosemary Taylor and Hector A. Navarro, Journal of Physics E. Scientific Instrument, Vol. 16, No. 11, pp. 1100-1104 (1983).
	QB	"Experience in Using Estelle for the Specification and Verification of a Fieldbus Protocol: FIP," by Barretto et al., Computer Networking, pp. 295-304 (1990).
	QC	"Computer Simulation of H1 Field Bus Transmission," by Utsumi et al., Advances in Instrumentation and Control, Vol. 46, Part 2, pp. 1815-1827 (1991).
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	QT	

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FORM PTO-1449	JUN 28 2001	Atty. Docket No.: P32.12-0006	Appl. No.: 09/855,179
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT		First Named Inventor:	
		Evren Eryurek et al.	
		Filing Date	Group Art:
		May 14, 2001	---

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Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
XS	AA	5,669,713	09/23/97	Schwartz et al.	374	1
	AB	5,700,090	12/23/97	Eryurek	374	210
	AC	5,703,575	12/30/97	Kirpatrick	340	870.17
	AD	5,719,378	02/17/98	Jackson, Jr. et al.	219	497
	AE	5,741,074	04/21/98	Wang et al.	374	185
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XS	AM	EP 0 807 804 A2	19.11.97	EPO			X
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XS	AO	"Improving Dynamic Performance of Temperature Sensors With Fuzzy Control Techniques," by Wang Lei et al., pp. 872-873 (1992).					
XS	AP	"Microsoft Press Computer Dictionary" 2nd Edition, 1994, Microsoft Press. p. 156					
	AQ						

EXAMINER: <i>Wang Li</i>	DATE CONSIDERED: <i>08/22/02</i>
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